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January 10, 2001

Magalie Roman Salas, Secretary  
Federal Communications Commission  
445 12th Street, S.W.  
Washington, D.C. 20554

Re: *CC Docket No. 94-102*  
*December 27, 2000 Letter Regarding M-T Cellular, Inc.'s E-911*  
*Implementation Report, Call Sign KNKQ286*

Dear Ms. Salas:

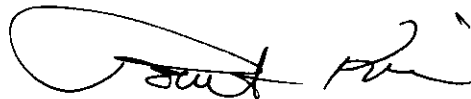
Cingular Wireless LLC ("Cingular"), by its attorneys and on behalf of its affiliate, M-T Cellular, Inc. ("M-T"), hereby responds to the Commission's letter dated December 27, 2000. In the letter, the Commission stated that M-T had failed to file the required report detailing its plan to implement an enhanced 911 Phase II automatic location information system.

On November 9, 2000, Cingular, on behalf of itself and its affiliates, submitted to the Commission a "Report on Implementation of Wireless E-911 Phase II ALI" ("Report" — copy attached). Attachment A to the Report lists by carrier and TRS ID number each carrier contributed to Cingular by BellSouth Corporation and SBC Communications, Inc. when they created Cingular pursuant to Commission authorization in early October 2000. M-T was included on the original Attachment A submitted on November 9, 2000. A copy of the current version of Attachment A is attached for your convenience.

If you have any questions or concerns, please contact the undersigned.

Sincerely,

WILKINSON BARKER KNAUER, LLP



Robert G. Kirk

cc: Wendy Austrie  
Enclosure

**Cingular Wireless LLC**  
Report on Implementation of Wireless E911 Phase II ALI  
November 9, 2000

Pursuant to requirements of section 20.18(h) of the Commission's rules<sup>1</sup> and the Wireless Telecommunications Bureau's Public Notice released September 14, 2000,<sup>2</sup> Cingular Wireless LLC, on behalf of its subsidiaries and affiliates ("Cingular Wireless"), respectfully submits the following information to the Wireless Telecommunications Bureau ("WTB") concerning Cingular Wireless's plans for implementation of wireless Enhanced 911 ("E911") Phase II Automatic Location Identification ("ALI") systems.

(Please note that for each numbered section of this report WTB's specific inquiry is italicized and Cingular Wireless's response is in regular typeface.)

**Background/Contact Information**

- (1) *Carrier Identifying Information*: Cingular Wireless LLC, TRS # (See Attachment A).
- (2) *Contact Information*: Andrew W. Clegg, Senior Manager of Strategic Technology, BellSouth Cellular Corp., 1100 Peachtree St., NE, Suite 803, Atlanta, GA 30309, 404-249-3267 (voice), 404-249-5157 (fax), [andrew.clegg@bellsouth.com](mailto:andrew.clegg@bellsouth.com) (e-mail); and Robert J. Tyler, Regional Manager of Network Technology Development, SBC Wireless, 2000 West Ameritech Center Drive, 3F53D, Hoffman Estates, IL 60195, 847-765-6533 (voice), 847-765-3707 (fax), [robert.j.tyler@cellular.ameritech.com](mailto:robert.j.tyler@cellular.ameritech.com) (e-mail).

**E911 Phase II Location Technology Information**

(1) *Type of Technology*: Identification of the Phase II location technology(ies) that the carrier plans to deploy across its service territory, e.g., network-only, handset-only, hybrid or a combination thereof. Please also include a complete description of the technology(ies) that is/are chosen and the name of the corresponding vendor or vendors. Indicate what technology will be used in each individual area of the carrier's service territory.

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<sup>1</sup> See *In the Matter of Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems*, CC Docket No. 94-102, *Third Report and Order*, 14 FCC Rcd. 17388, 17426-28 (1999), as modified in *Fourth Memorandum Opinion and Order*, FCC 00-326, rel. Sept. 8, 2000, at ¶¶ 75-81.

<sup>2</sup> See "Wireless Telecommunications Bureau Provides Guidance on Carrier Reports on Implementation of Wireless E911 Phase II Automatic Location Identifications," CC Docket No. 94-102, Public Notice DA 00-2099, rel. Sept. 14, 2000.

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November 9, 2000

- (a) PCS1900 (GSM) Markets: Cingular Wireless plans to deploy a handset (GPS) technology in the markets in which it provides PCS1900 service. These broadband PCS markets are identified by the Commission as: MTA002 (Los Angeles-San Diego), MTA004 (San Francisco-Oakland-San Jose), MTA006 (Charlotte-Greensboro-Greenville-Raleigh), MTA024 (Seattle), MTA044 (Knoxville), BTA026 (Augusta, GA), BTA058 (Brunswick, GA), BTA 228 (Kennewick-Pasco-Richland, WA), BTA 250 (Lewiston-Moscow, ID), BTA 425 (Spokane, WA), BTA 460 (Walla Walla, WA-Pendleton, OR), BTA410 (Savannah, GA) and BTA482 (Yakima, WA). Cingular Wireless is currently in the process of evaluating vendors' network infrastructure and handsets that incorporate network assisted GPS functionality in PCS 1900 handsets.
- (b) TDMA/AMPS Markets: Cingular Wireless plans to deploy a network-based technology for its analog and IS-136 service areas, which include all of its coverage areas not specified in (1)(a). Cingular Wireless plans to deploy a combination of network based technologies, including cell site and sector information, Time Difference of Arrival ("TDOA"), Angle of Arrival ("AOA"), and/or multipath RF mapping. BellSouth Cellular Corp., an indirect wholly owned subsidiary of BellSouth Corporation, issued a Request for Quote to several vendors of network-based technology. Cingular Wireless is now evaluating the responses that were received as of the end of August 2000. Cingular Wireless expects to choose a vendor or vendors by the first quarter of 2001.
- (2) Testing and Verification: *A description of the testing method used, or to be used, to determine the accuracy of the ALI solution(s) selected, and a description of the results of tests already conducted.*
- (a) Testing Method to be Used: To determine compliance with FCC Phase II accuracy mandates, Cingular Wireless has used, and expects to continue to use, testing methods based upon those described in OET Bulletin 71.
- (b) Results of Tests Already Conducted: Cingular Wireless has conducted tests of the currently available location-technologies under consideration (E-OTD, AOA, TDOA, Network Assisted GPS, and RF Mapping). The tests were conducted during various stages of technology development and in virtually all RF environments (urban, suburban, rural, outdoors, indoor, etc.). The data obtained in each specific trial of location-technology is subject to nondisclosure agreements (NDAs) with the respective vendors and, therefore, cannot be disclosed publicly. However, a general summary of the trial results is provided here:
- (i) The testing methodology for previous trials was created prior to the issuance of OET Bulletin 71, but generally adhered to the methodologies described in that document. Test points were established at random locations

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(subject to physical access) and compared to measurements obtained with professionally-surveyed GPS, differential GPS, and handheld consumer GPS receivers. Professionally-surveyed reference points made up approximately 5% of the reference locations, and their coordinates were known to an accuracy of better than one meter. Differential GPS points were known to an accuracy of approximately one to five meters. Handheld GPS measurements were accurate to within approximately five to thirty-five meters (corresponding to selective availability off and on, respectively).

- (ii) None of the location-technologies strictly met the relevant FCC accuracy mandate (network or handset) in all environments. In the last six months, Cingular Wireless's trials have shown a substantial improvement in the accuracy performance of most technologies. In general, the overall 67% and 95% accuracies now achieved are typically 50% worse than the mandate. For example, the accuracy of network-based technologies was typically one hundred fifty meters 67% of the time across a composite of environments, as compared to the one hundred meters accuracy required by the E911 rules. It should be noted, however, that these figures represent an extremely simplified summary of numerous tests that cannot be disclosed individually.
- (iii) Many of the technologies were able to meet or exceed the accuracy requirements in suburban outdoor (or in-vehicle) environments where, according to the record in the E911 Phase II proceeding, the majority of wireless 911 calls originate. The toughest environments for all technologies included office buildings, train stations, parking garages, and underneath bridges.
- (iv) Some of the technologies showed promise of improvement and possible eventual compliance with the FCC accuracy mandate, given sufficient time for further development and calibration.

(3) *Implementation Details and Schedules: A complete description of the carrier's strategy and schedule for the installation of the hardware and software needed to implement its chosen technology (handset-based, network-based or hybrid systems). For example, indicate whether both hardware and software changes will be necessary and fully describe the precise nature of the changes. In addition, please provide the roll-out schedule for the installation of the ALI technology(ies).*

- (a) TDMA/AMPS Markets: Although the exact nature of the hardware installations will depend on the vendor chosen to provide location technology, and the specific solution(s) deployed at a given site, network-based equipment will likely require measurement units at each base station. For example, additional antennas will be required at base stations in areas (such as rural) that require AOA techniques for accurate locations. Other than the additional antennas for AOA, the hardware will typically consist of a short rack of equipment that must be connected to power,

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antenna, and communications (DS0) ports, and located in a weather-proof enclosure. The direction-finding antennas for AOA installations will be installed upon towers or roof-tops co-located with or in the vicinity of the antennas used for regular cellular coverage.

Additional equipment is required in the cellular network to process requests for locations and to perform the actual position calculations. The equipment will typically be installed in central locations such as mobile switching centers.

The amount of time required to install the equipment is not known with certainty, as no large-scale deployment has occurred. Vendors have estimated that two to four base stations could be upgraded per day per team of installers, and the centralized equipment should be installed in less than one week's time. For a typical medium-sized market consisting of two hundred cell sites, installation time will be, at best, ten to twelve weeks. This estimate does not include the "learning curve" for installing and operating the equipment, time required to resolve zoning issues, and/or additional time spent on especially difficult or remote installations. In addition, calibration of the network-based location system could take a substantial amount of time (several weeks based upon current experience), and will be an on-going process.

On the infrastructure side, upgrades to base station controller software will be required to make the RF and network systems compliant with location-technology standards. The software updates are performed by the infrastructure vendors, who have informed us that the new software will be available prior to October 1, 2001.

- (b) GSM Markets: Network assisted GPS deployment will be principally governed by the availability of GSM handsets supporting network assisted GPS. The network component required to support GPS is primarily centralized equipment used to process the handset-based GPS measurements and to monitor network performance. The network component will be installed in centralized locations such as mobile switching centers ("MSCs"). Reference receivers will also need to be deployed in the network. As in our TDMA markets, software enhancements will be needed throughout the network to support the required signaling of location related information. At least one of our infrastructure vendors (Nortel) has informed us and the FCC that it cannot complete all software upgrades in time for the October 1, 2001, deadline if a very large number of PSAP requests occur in 2001.

Cingular Wireless plans to be compliant with the FCC schedule for handset deployment, contingent upon the availability of handsets from the manufacturers.

- (c) Roll-out Schedules: Deployment schedules for Phase II technology will be dictated by PSAP requests.

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(4) *PSAP Interface: A description of hardware and software changes necessary to transmit Phase II data to PSAPs and the carrier's strategy and schedule for the installation and/or modification of such hardware or software changes.*

Cingular Wireless plans on deploying a Non-Call Associated Signaling network technology utilizing the newly defined network entity called a Mobile Position Center ("MPC"). The functionality of the MPC is defined in TIA/EIA J-STD-036, "Enhanced Wireless 9-1-1 Phase 2," a standard jointly developed by the communications industry and public safety. Per J-STD-036, the MPC provides the point of interface between a wireless carrier and the public safety network and serves as the network entity that retrieves, forwards, stores and controls position data within the location network.

Cingular Wireless is in the process of selecting an MPC supplier. Vendors are currently in the product development stage. At least one vendor has indicated that a commercial, J-STD-036 compliant MPC will be available in mid-2001. Test platforms may be available sooner.

Cingular Wireless intends to install and begin testing MPC functionality as soon as vendors are able to provide a standards compliant platform. Fully testing MPC functionality, however, requires that ALI service providers upgrade the interface to the ALI systems to support J-STD-036. As this is accomplished, Cingular Wireless will begin testing end-to-end transmission of Phase II data with ALI service providers.

Software upgrades will be required to support MPC functionality in the MSC. Cingular Wireless's MSC vendors have indicated that upgrades for the various switches will be available on time scales ranging from 4Q2000 to 4Q2001.

After verification testing of compliant versions of MSC software, Cingular Wireless plans to work with MSC suppliers to schedule and carry out MSC upgrades.

(5) *Existing Handsets: A description of the carrier's strategy and schedule for the upgrade and/or replacement of existing customer handsets, if applicable.*

For TDMA/AMPS systems, Cingular Wireless plans to deploy a network-based solution or solutions that does/do not require changes to the handsets. Legacy handsets are covered under this deployment plan.

For handsets which support network assisted GPS, which are required in our GSM networks, Cingular Wireless plans to be compliant with the FCC schedule contingent upon handset availability.

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*(6) Location of Non-Compatible Handsets: A description of the best efforts that carriers employing a handset-based or hybrid system will take to accommodate handsets that are incompatible with the carrier's ALI system, e.g., handsets that do not have ALI capability, or handsets that are ALI-capable, but are not compatible with the carrier's particular handset-based or hybrid system.*

In Cingular Wireless's TDMA/AMPS markets, the issue of non-compatible handsets is not relevant because the network-based location equipment is capable of locating all handsets, including legacy handsets.

In GSM markets where network assisted GPS technology will be used, Cingular Wireless plans to provide, at a minimum, Phase I location information for legacy handsets. Additionally, Cingular Wireless plans to evaluate software systems that can use timing advance, cell ID, and RF signal strength to provide an approximate location of non-compliant handsets to a level of accuracy that is better than Phase I location information.

*(7) Other Information: Please provide any other information, including a description and history of any Phase II requests received from PSAPs, that will assist the Commission and affected parties in monitoring and coordinating the deployment of E911 Phase II in accordance with the timetables set forth in the Commission's rules.*

A Phase II E911 location system is an extremely complex technology that has never been fully deployed on any large-scale commercial wireless network anywhere in the world. Cingular Wireless believes that a full-scale, end-to-end Phase II deployment will encounter many obstacles and challenges that have not been—and cannot be—foreseen. For this reason, Cingular Wireless is studying the feasibility of deploying a full-scale, end-to-end Phase II system (not a trial or a demo) in one of its markets prior to the FCC-mandated deadlines. The purpose of this first office application (FOA) would be to fully understand the complexities of Phase II installation and operation, so that the subsequent system installations will proceed with greater efficiency. If the Phase II FOA is deployed, Cingular Wireless plans to share experience gained with the FCC, cellular and PCS operators, location technology vendors, GIS vendors, and PSAPs.

## ATTACHMENT A

Cingular Wireless LLC was created, pursuant to Commission authorization,<sup>1</sup> by the combination of the mobile wireless voice and data businesses previously operated by subsidiaries of BellSouth Corporation and SBC Communications Inc. This report is intended to cover all of the affiliates and subsidiaries of Cingular, listed on the following pages, that hold CMRS licenses. To the extent individual licensees set forth herein file licensee specific reports, the licensee specific reports shall govern.

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<sup>1</sup> See *Applications of SBC Communications, Inc. and BellSouth Corporation*, File Nos. 0000117778, *et al.*, WT Docket No. 00-81, *Memorandum Opinion and Order*, DA 00-2223 (Sept. 29, 2000).



ABILENE SMSA LIMITED PARTNERSHIP  
 ACADIANA CELLULAR GENERAL PARTNERSHIP  
 ALABAMA CELLULAR SERVICE, LLC  
 AMARILLO SMSA LIMITED PARTNERSHIP  
 AMCELL OF ATLANTIC CITY, LLC  
 AMERICAN CELLULAR COMMUNICATIONS LLC  
 AMERICAN CELLULAR NETWORK COMPANY, LLC  
 AMERITECH MOBILE COMMUNICATIONS, LLC  
 AMERITECH WIRELESS COMMUNICATIONS, INC.  
 ANNISTON WESTEL COMPANY, LLC  
 ATLANTA-ATHENS MSA LIMITED PARTNERSHIP  
 ATLANTA-ATHENS MSA LIMITED PARTNERSHIP  
 AUROR/ELGIN CELLULAR TELEPHONE, LLC  
 BCTC OF TEXAS, LLC  
 BELLSOUTH CAROLINAS PCS, L.L.C.  
 BELLSOUTH MOBILITY LLC  
 BELLSOUTH PERSONAL COMMUNICATIONS, LLC  
 BLOOMINGTON CELLULAR TELEPHONE CO.  
 CELL SOUTH OF NEW JERSEY, LLC  
 CHAMPAIGN CELLTELCO  
 CHATTANOOGA MSA LIMITED PARTNERSHIP  
 CINCINNATI SMSA LIMITED PARTNERSHIP  
 CORPUS CHRISTI SMSA L.P.  
 CORPUS CHRISTI SMSA LIMITED PARTNERSHIP  
 C-SW CELLULAR PARTNERSHIP  
 DALLAS SMSA LIMITED PARTNERSHIP  
 DECATUR CELLULAR TELEPHONE COMPANY, LLC  
 DETROIT SMSA LIMITED PARTNERSHIP  
 EASTERN MISSOURI CELLULAR L.P.  
 FLORIDA CELLULAR SERVICE, LLC  
 FLORIDA RSA NO. 2B (INDIANA RIVER) LIMITED PARTNERSHIP  
 GALVESTON CELLULAR TELEPHONE CO.  
 GARY CELLULAR TELEPHONE CO.  
 GEORGIA RSA NO. 1 LIMITED PARTNERSHIP  
 GEORGIA RSA NO. 2 LIMITED PARTNERSHIP  
 GEORGIA RSA NO. 3 LIMITED PARTNERSHIP  
 GTE MOBILNET OF AUSTIN LIMITED PARTNERSHIP  
 GTE MOBILNET OF TEXAS RSA #11 LIMITED PARTNERSHIP  
 GTE MOBILNET OF TEXAS RSA #16 LIMITED PARTNERSHIP  
 HOUMA-THIBODEAUX CELLULAR PARTNERSHIP  
 HOUSTON CELLULAR TELEPHONE, L.P.  
 HUNTSVILLE MSA LIMITED PARTNERSHIP  
 INDIANA 6, L.L.C.  
 INDIANA CELLULAR LLC  
 JACKSONVILLE MSA LIMITED PARTNERSHIP  
 JOLIET CELLULAR TELEPHONE, LLC  
 KANSAS CITY SMSA LIMITED PARTNERSHIP  
 KENTUCKY CGSA, LLC  
 LAFAYETTE MSA LIMITED PARTNERSHIP  
 LOUISIANA CELLULAR HOLDINGS, L.L.C.  
 LOUISIANA RSA NO. 7 CELLULAR GENERAL PARTNERSHIP  
 LOUISIANA RSA NO. 8 LIMITED PARTNERSHIP  
 LUBBOCK SMSA LIMITED PARTNERSHIP  
 MADISON SMSA LIMITED PARTNERSHIP  
 MCALLEN-EDINBURG-MISSION SMSA L.P.  
 MCTA  
 MEMPHIS SMSA LIMITED PARTNERSHIP  
 MIDLAND/ODESSA SMSA L.P.  
 MILWAUKEE SMSA LIMITED PARTNERSHIP  
 MISSOURI RSA 11/12 L.P.  
 MISSOURI RSA 6 L.P.  
 MISSOURI RSA 9B1 L.P.  
 M-T CELLULAR, LLC  
 NEW SOUTHWESTERN BELL MOBILE SYSTEMS, INC.  
 NEW YORK HOLDINGS, LLC  
 NORTHEAST MISSISSIPPI CELLULAR, LLC  
 NORTHEASTERN GEORGIA RSA LIMITED PARTNERSHIP  
 OKLAHOMA CITY SMSA L.P.  
 OKLAHOMA RSA 3 L.P.  
 OKLAHOMA RSA 9 L.P.  
 ORLANDO CGSA, LLC  
 ORLANDO SMSA LIMITED PARTNERSHIP  
 PACIFIC BELL WIRELESS L.L.C.  
 PACIFIC BELL WIRELESS NORTHWEST, LLC  
 PACIFIC TELESIS MOBILE SERVICES, LLC  
 PINE BLUFF CELLULAR, INC.  
 PINNACLE CELLULAR L. P.  
 SAN ANTONIO SMSA L.P.  
 SBMS CELLULAR TELECOM. BLOOMINGTON, LLC

SNET CELLULAR, LLC  
SOUTHWESTERN BELL MOBILE SYSTEMS, LLC  
SOUTHWESTERN BELL WIRELESS, LLC  
SPRINGWICH CELLULAR LIMITED PARTNERSHIP  
ST. JOSEPH SMSA L.P.  
TENNESSEE RSA LIMITED PARTNERSHIP  
TENNESSEE RSA LIMITED PARTNERSHIP  
TEXAS RSA 10B1 L.P.  
TEXAS RSA 10B3 LIMITED PARTNERSHIP  
TEXAS RSA 18 L.P.  
TEXAS RSA 19 L.P.  
TEXAS RSA 20B1 L.P.  
TEXAS RSA 6 L.P.  
TEXAS RSA 7B1 L.P.  
TEXAS RSA 9B1 L.P.  
TEXAS RSA 9B4 L.P.  
TOPEKA SMSA LIMITED PARTNERSHIP  
VINELAND CELLULAR TELEPHONE COMPANY, LLC  
WASHINGTON/BALTIMORE CELLULAR L.P.  
WESTEL-INDIANAPOLIS LLC  
WESTEL-MILWAUKEE COMPANY, LLC  
WICHITA SMSA LIMITED PARTNERSHIP  
WORCESTER TELEPHONE COMPANY

Federal Communications Commission  
Washington, D.C. 20554

December 27, 2000

KNKQ286  
M-T Cellular, LLC  
1155 Peachtree Street, N.E., Suite 1700  
Atlanta, GA 303093610

Re: November 9, 2000 E911 Phase II Carrier Implementation Report

By the Wireless Telecommunications Bureau:

1. Pursuant to section 20.3(h) of the Federal Communications Commission's (Commission) rules, wireless carriers were required to submit reports on or before November 9, 2000 to the Commission on their plans for implementation of wireless Enhanced 911 (E911) Phase II automatic location identification (ALI) systems.<sup>1</sup> As of the date of this notice, M-T Cellular Inc has failed to submit the required report.
2. In accordance with Section 308(b) of the Communications Act of 1934 as amended, 47 U.S.C. § 308(b), M-T Cellular Inc, shall within fifteen (15) days of the date of this letter submit a report on its wireless E911 Phase II ALI implementation.
3. The report shall contain information on M-T Cellular Inc's implementation plans, as outlined in the *Public Notice*, released September 14, 2000, Wireless Telecommunications Bureau Provides Guidance on Carrier Reports on Implementation of Wireless E911 Phase II Automatic Location Identification.<sup>2</sup> A copy of the *Public Notice* is attached hereto.
4. Failure to file a report concerning M-T Cellular Inc's implementation plan for wireless E911 Phase II ALI systems constitutes a violation of the Commission's Rules. Failure to comply with this notice constitutes a continuing violation of the Commission's Rules and will be referred to the Commission's Enforcement Bureau and could result in administrative penalties, including monetary forfeiture. See *Forfeiture Policy Statement*, 12 FCC Rcd 17087 (1997).
5. Your report can be filed either electronically or as a paper filing. Electronic filings should be made using the Electronic Comment Filing System (ECFS). Reports filed through the ECFS can be sent as an electronic file via the Internet to <http://www.fcc.gov/e-file/ecfs.html>. In completing the transmittal screen, parties should include their full name, Postal Service mailing address, and the docket number of this proceeding. Parties filing electronically should also e-mail a copy of their report to

<sup>1</sup> Revision of the Commission's Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems, CC Docket No. 94-102, *Third Report and Order*, 14 FCC Rcd 17388 (1999)(*E911 Third Report and Order*).

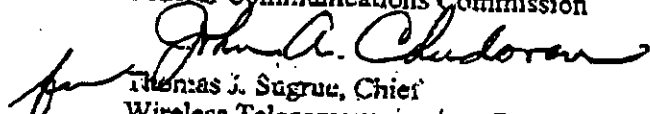
<sup>2</sup> See *Public Notice* Wireless Telecommunications Bureau Provides Guidance on Carrier Reports on Implementation of Wireless E911 Phase II Automatic Location Identification, DA 00-2099, CC Docket No. 94-102.

PRIVILEGED AND CONFIDENTIAL

WAustrie@fcc.gov. Parties who choose to file by paper must file an original and four copies of each filing with the Commission's Secretary, Magalie Roman Salas, Office of the Secretary, Federal Communications Commission, 445 12th Street, SW, Washington, D.C. 20554 and a diskette copy to the Commission's copy contractor, International Transcription Service, Inc. (ITS), CY-B400, (202) 857-3800. In addition, parties must submit one copy to Wendy Austrie, Policy Division, Wireless Telecommunications Bureau, Federal Communications Commission, 445 12th Street, S.W., Washington, D.C. 20554. Reports will be available for public inspection during regular business hours in the FCC Public Reference Room, Room CY-A257, 445 12th Street, S.W., Washington, D.C. 20554.

6. Should you have any questions regarding this matter, please contact Ms. Wendy Austrie at 202-418-1310.

Federal Communications Commission

  
Thomas J. Sugrue, Chief  
Wireless Telecommunications Bureau